

WHAT IS CLAIMED IS:

1. A coating process of aluminum oxide on the surface of a plastic floor tile comprising:

A. A first step of preparing and placing a  
5 half-finished plastic floor tile on a feeding table:

B. A second step of coating a first layer of UV photo-curing resin on a surface of the half-finished plastic floor tile by means of a set of spraying appliance;

C. A third step of forming a layer of aluminum  
10 oxide sand on the first not-yet-cured layer of UV photo-curing resin formed in the second step by means of a spray appliance;

D. A fourth step of curing the first not-yet-cured layer of UV photo-curing resin formed in the second step  
15 with the layer of aluminum oxide sand by light shining by means of one or more UV lamps:

E. A fifth step of forming a second layer of UV photo-curing resin on the cured layer of UV photo-curing resin finishing the fourth step by means of a coating  
20 appliance:

F. A sixth step of curing the second not-yet-cured layer of UV photo-curing resin coated in the fifth step by light shining by means of one or more UV lamps:

G. A seventh step of cooling the heat of the  
25 second cured layer of UV photo-curing resin finishing the sixth step by means of a heat dispersing device:

H. An eighth step of placing and storing the

finished plastic floor tile finishing the seventh step onto a receiving table.

2. The coating process of aluminum oxide on the surface of a plastic floor tile as claimed in Claim 1, wherein said coating appliance is a roller.

3. The coating process of aluminum oxide on the surface of a plastic floor tile as claimed in Claim 1, wherein said coating appliance is one possible to coat paint on a plastic floor tile.

4. The coating process of aluminum oxide on the surface of a plastic floor tile as claimed in Claim 1, wherein said spraying appliance is a sandblast machine.

5. The coating process of aluminum oxide on the surface of a plastic floor tile as claimed in Claim 1, wherein said two layers of UV photo-curing resin with the layer of aluminum oxide said sandwiched between said two layers of UV photo-curing resin make the finished plastic floor tile provided with excellent property of anti-abrasion and anti-slipping.

6. The coating process of aluminum oxide on the surface of a plastic floor tile as claimed in Claim 1, wherein said layer of aluminum oxide sand makes the finished plastic floor tile provided with excellent property of anti-abrasion and anti-slipping.

7. The coating process of aluminum oxide on the surface of a plastic floor tile as claimed in Claim 1, wherein said heat dispersing device is a heat-dispersing